ORDER NO. HAD8705120C1
A2

Service Manual

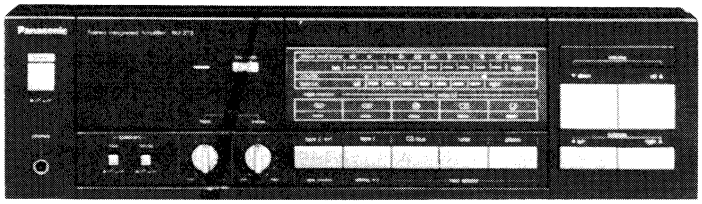
Stereo Integrated Amplifier

Amplifier

SU-373

Color

(K)...Black Type



Color	Area
(K)	[M] ..... U.S.A.

System
SC-3730

SPECIFICATIONS (IHF' 78)

■ AMPLIFIER SECTION

Rated minimum sine wave RMS power output
20 Hz~20 kHz both channels driven
0.09% total harmonic distortion
100W per channel (8 ohms)

1 kHz continuous power output
both channels driven
0.09% total harmonic distortion
105W per channel (8 ohms)

Dynamic headroom 1.1 dB (8 ohms)
Total harmonic distortion
half power at 1 kHz 0.09% (8 ohms)
SMPTE intermodulation distortion
0.09% (8 ohms)

Frequency response
PHONO RIAA standard curve ±0.8 dB
TUNER, CD/AUX, TAPE 1, TAPE 2/EQ
10 Hz~70 kHz, −3 dB
Input sensitivity
PHONO 0.4 mV (2.5 mV, IHF '66)
TUNER, CD/AUX, TAPE 1, TAPE 2/EQ
15 mV (150 mV, IHF '66)
S/N (IHF, A)
PHONO 71 dB (73 dB, IHF '66)
TUNER, CD/AUX, TAPE 1, TAPE 2/EQ
75 dB (94 dB, IHF '66)
Maximum input voltage
PHONO 128 mV (135 mV, 1 kHz)
Input impedance
PHONO 47 kilohms
TUNER, CD/AUX, TAPE 1, TAPE 2/EQ
20 kilohms

Tone controls
BASS 50 Hz, +10 dB~−10 dB
TREBLE 20 kHz, +10 dB~−10 dB
Loudness control (volume at −30 dB)
50 Hz, +9 dB
Output voltage
TAPE 1, TAPE 2/EQ REC OUT 150 mV
Low frequency damping factor 50 (8 ohms)
Load impedance
MAIN or REMOTE 8~16 ohms
MAIN and REMOTE 8~16 ohms

■ GENERAL

Power consumption 360W, 470 VA
Power supply AC 120V, 60 Hz
Dimensions (W×H×D) 430 × 119 × 240 mm
(16-15/16" × 4-11/16" × 9-7/16")
Weight 7.0 kg (15.4 lb.)

Note:
Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).
Specifications are subject to change without notice for further improvement.

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Panasonic

Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Hawaii, Inc.
91-238, Kauhi St. Ewa Beach
P.O. Box 774
Honolulu, Hawaii 96808-0774

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 De Infanteria, KM 9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

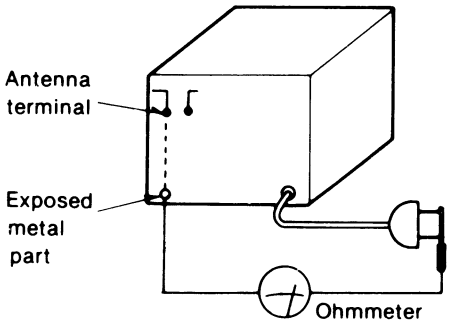
■ SAFETY PRECAUTION (This "safety precaution" is applied in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• INSULATION RESISTANCE TEST

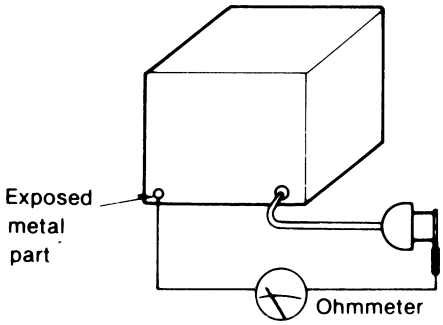
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3MΩ—5.2MΩ



(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note

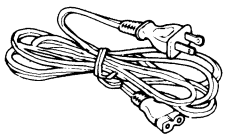
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ BEFORE REPAIR

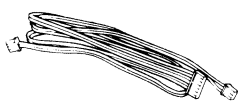
Disconnect AC power, Discharge both Power Supply Capacitors C703 and C704 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may distroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.
Current consumption at 120V, 60Hz in NO SIGNAL mode should be 250 ~ 500mA.

• Accessories

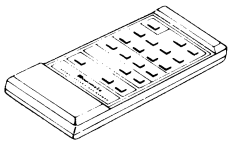
- AC power supply cord ..... 1 (SJA172—1)



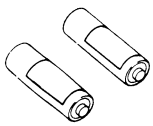
- Flat cable for remote-control operation 1 (SWKUV96KM)



- Remote-control transmitter 1 (EUR64196)



- Batteries ..... 2 (UM—3NEP)

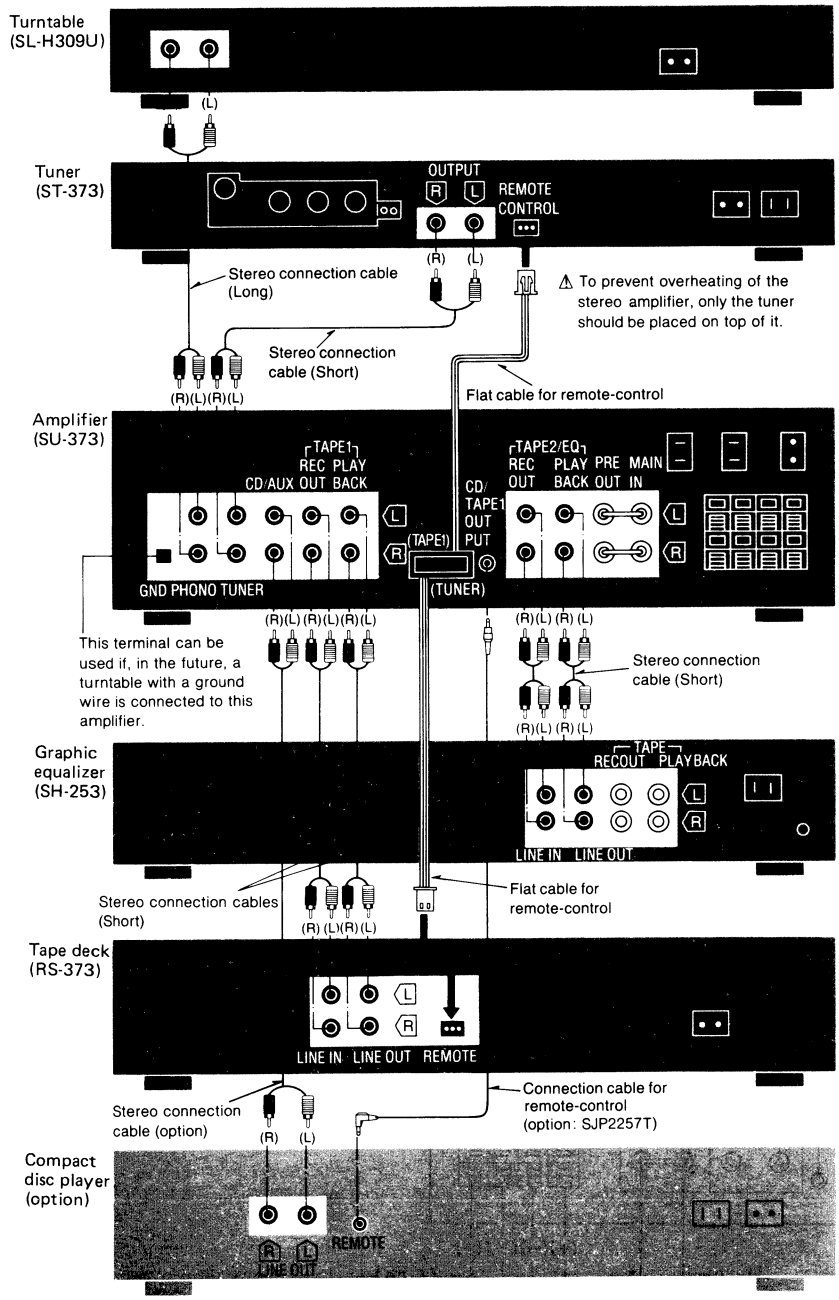


D

■ HOW TO CONNECT

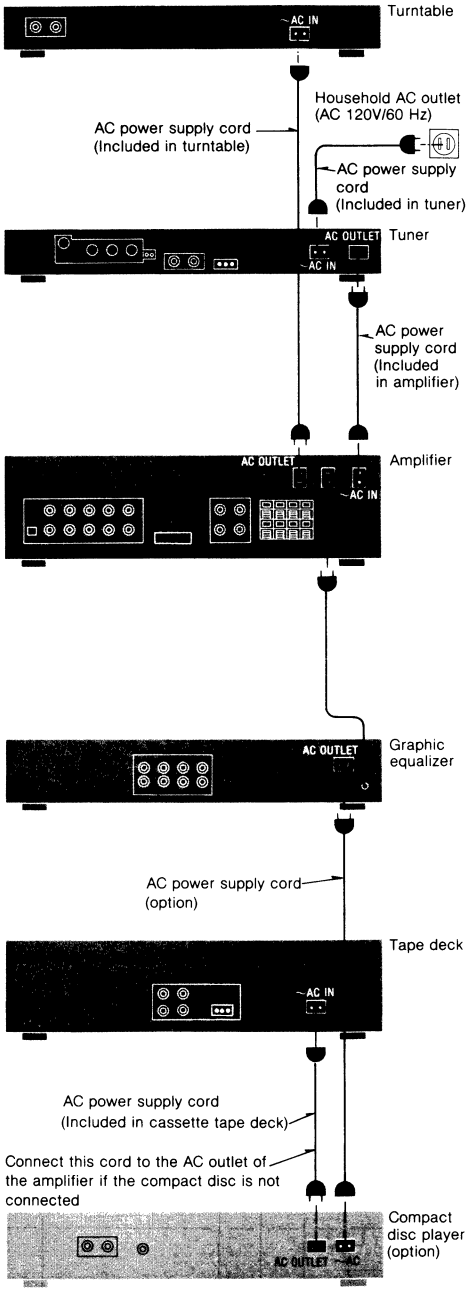
Connection of cables

This turntable's ground wire connection is not required for this system. (Ground wire is not included.)



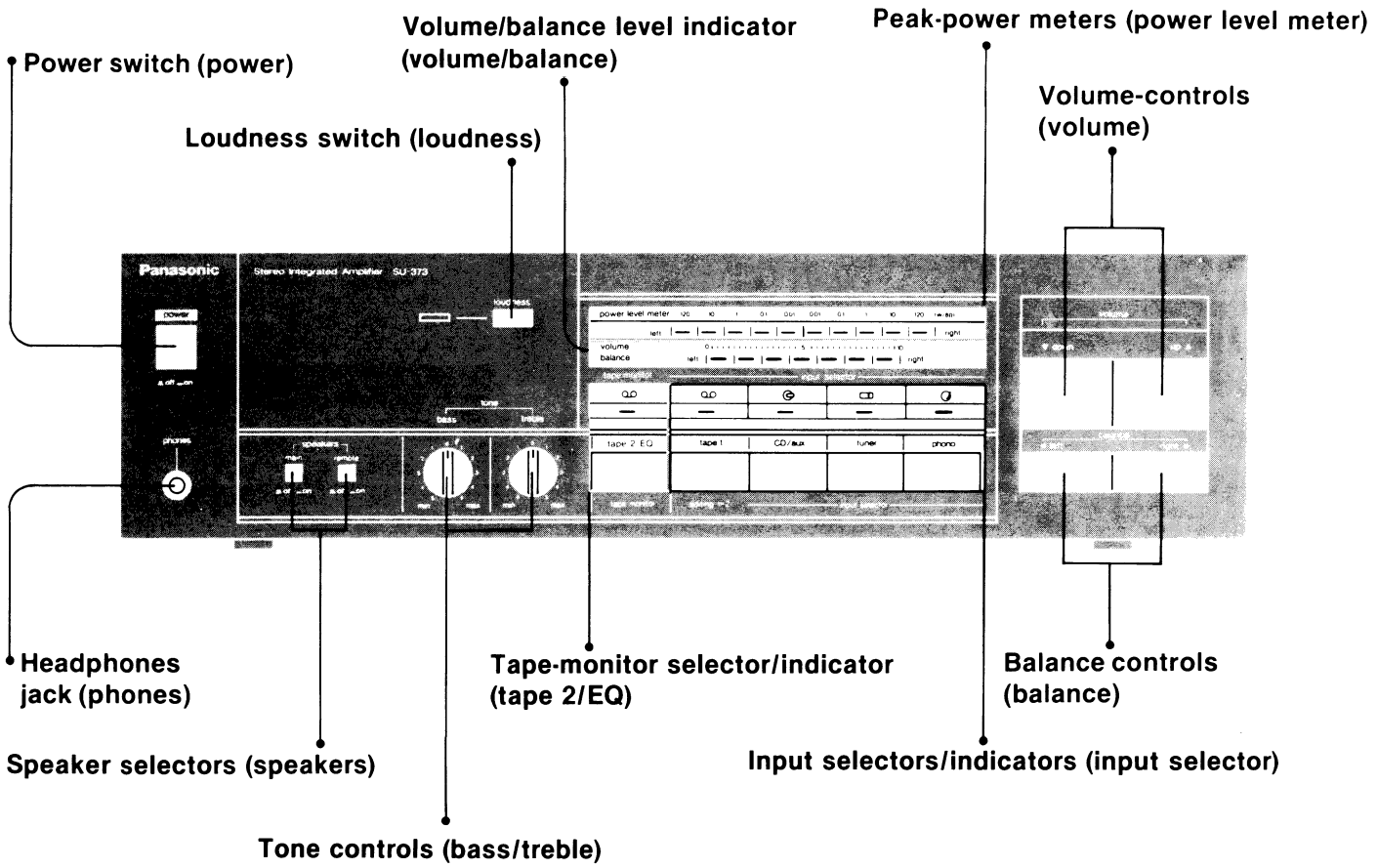
Note:
Be sure to use the power cord included with each unit, because some power cords are polarized and some are non-polarized (plug shapes are different).

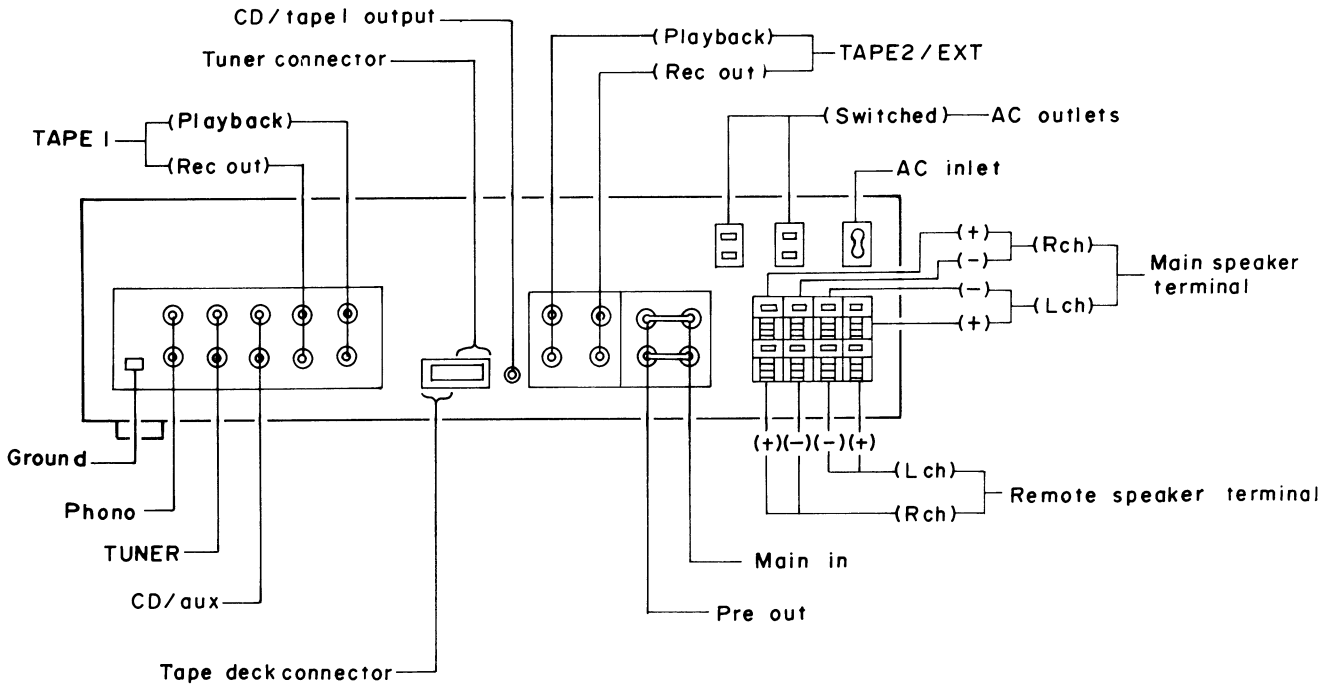
Connection of AC power supply cords


Turntable
AC IN
Household AC outlet (AC 120V/60 Hz)
AC power supply cord (Included in turntable)
AC power supply cord (Included in tuner)
AC OUTLET
Tuner
AC IN
AC power supply cord (Included in amplifier)
AC OUTLET
Amplifier
AC IN
AC OUTLET
Graphic equalizer
AC power supply cord (option)
Tape deck
AC IN
AC power supply cord (Included in cassette tape deck)
Connect this cord to the AC outlet of the amplifier if the compact disc is not connected
Compact disc player (option)
AC OUTLET

D

■ LOCATION OF CONTROLS





● Phono input capacitance is about 100pF.

D

■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1	How to remove the front panel.
Procedure 1	1. Remove the top cabinet. 2. Pull out the 2 knobs (❶ , ❷). 3. Remove the 3 screws (❸ ~ ❺). 4. Remove the 2 nuts (❻ , ❼) 5. Remove the connector.

"ATTENTION SERVICER"
SOME CHASSIS COMPONTS MAY HAVE SHARP EDGES. BE CAREFUL WHEN DISASSEMBLING AND SERVICING.

Removing the knob
Wind cellophane tape around the knob and put it the direction of the arrow as shown in Fig. 1.

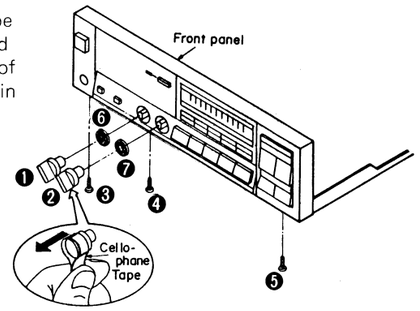


Fig. 1

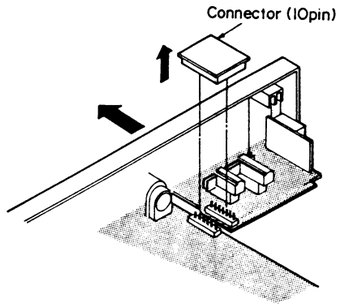


Fig. 2

Ref. No. 2	How to remove the P.C.B.
Procedure 1 →2	1. Remove the 7 screws (❶ ~ ❼). 2. Remove the LED P.C.B. 3. Remove the power switch knob. 4. Remove the 1 screw (❽). 5. Remove the power switch P.C.B. 6. Remove the 1 tab. 7. Remove the headphones P.C.B.

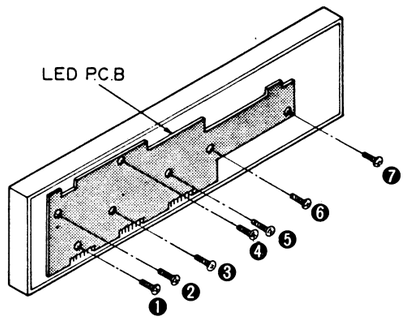


Fig. 3

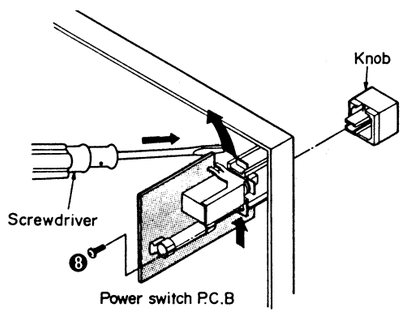


Fig. 4

Remove the knob by pushing it from behind the panel as shown in Fig. 4.

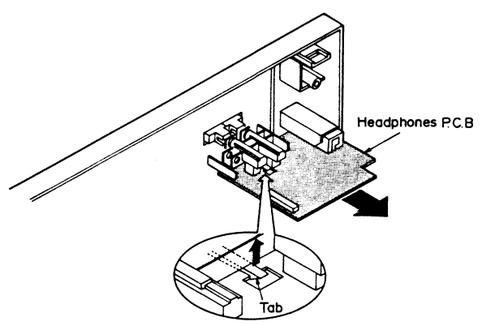


Fig. 5

Ref. No. 3	How to remove the main P.C.B.
Procedure 3	1. Remove the 10 screws (❶ ~ ❿). 2. Remove the main P.C.B.

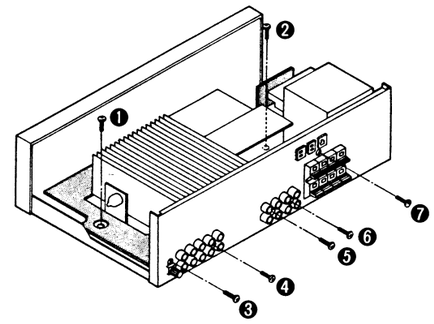


Fig. 6

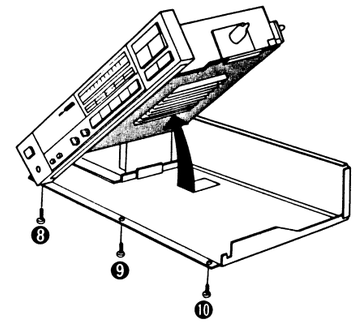


Fig. 7

Ref. No. 4	How to remove the power amplifier IC.
Procedure 3 →4	1. Unsolder the power IC. 2. Remove the 2 screws (❶ , ❷). 3. Remove the sub heat-sink. 4. Remove the 2 screws (❸ , ❹). ● When mounting the power IC, apply silicon thermal compound (SZZ0L15 or equivalent) to the rear of the power IC.

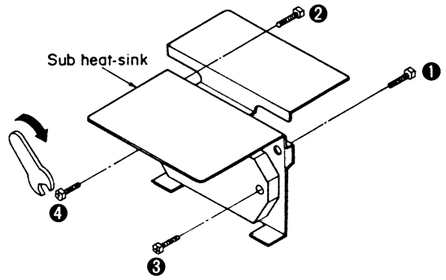


Fig. 8

Ref. No. 5	How to remove the bottom board.
Procedure 5	Remove the 11 screws (❶ ~ ⓬).

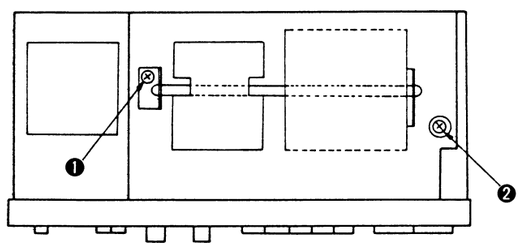


Fig. 9

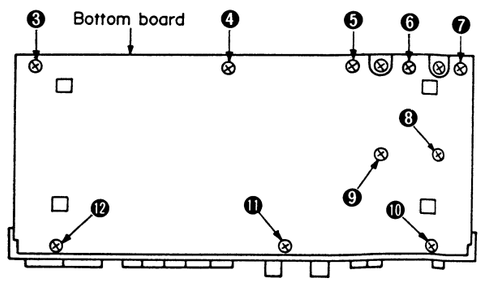
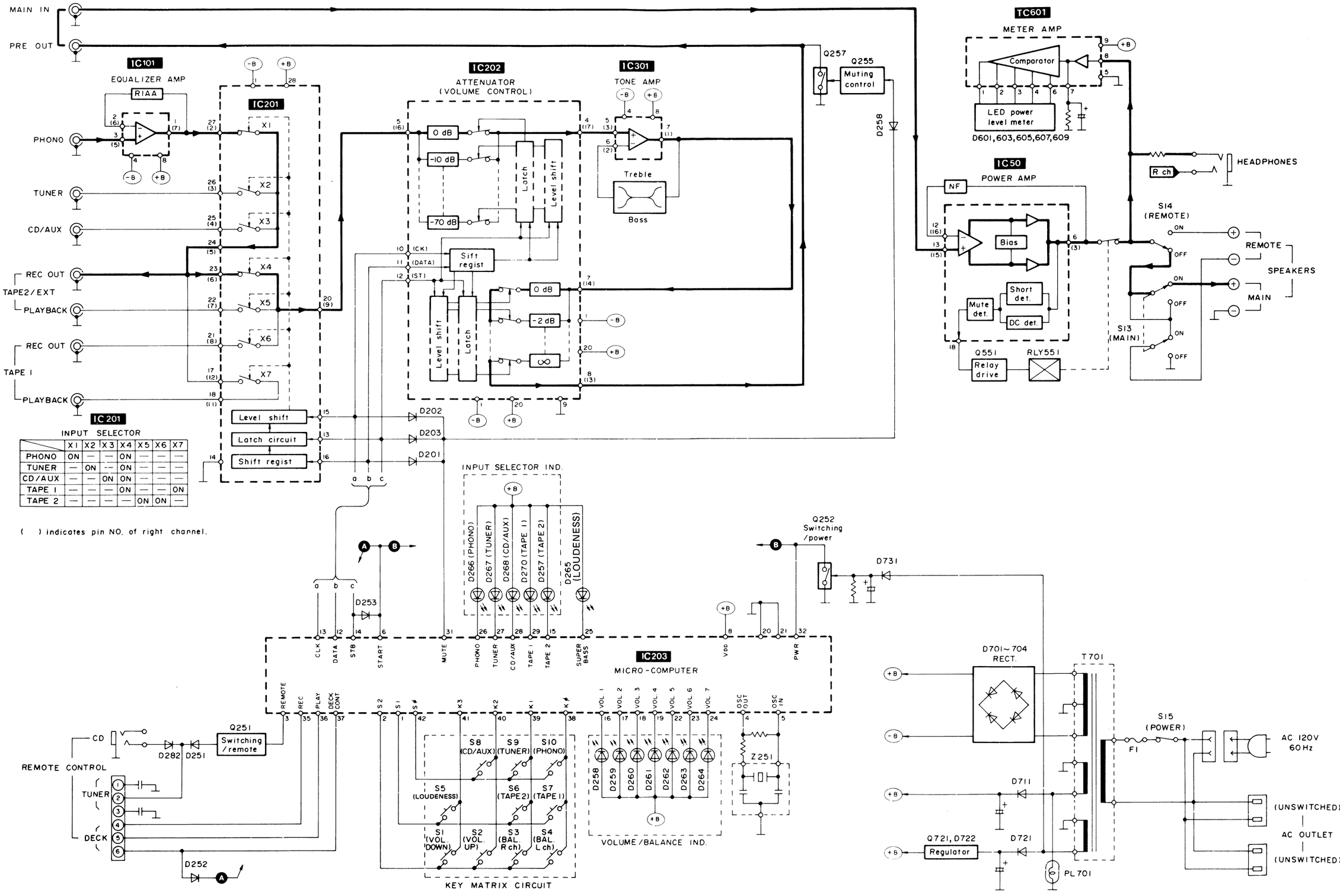


Fig. 10

D

■ BLOCK DIAGRAM



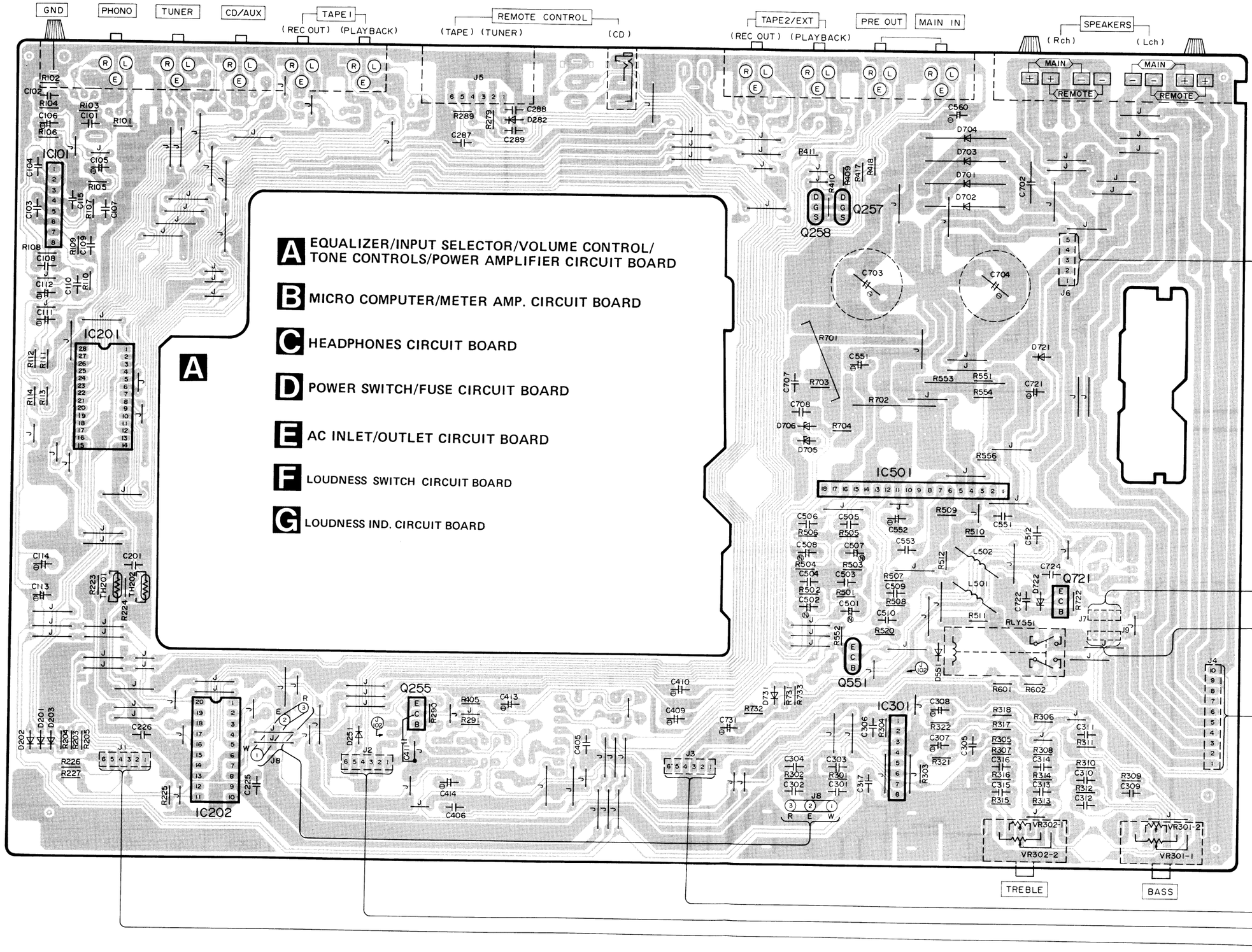
	X1	X2	X3	X4	X5	X6	X7
PHONO	ON	—	—	ON	—	—	—
TUNER	—	ON	—	ON	—	—	—
CD/AUX	—	—	ON	ON	—	—	—
TAPE 1	—	—	—	ON	—	—	ON
TAPE 2	—	—	—	—	ON	ON	—

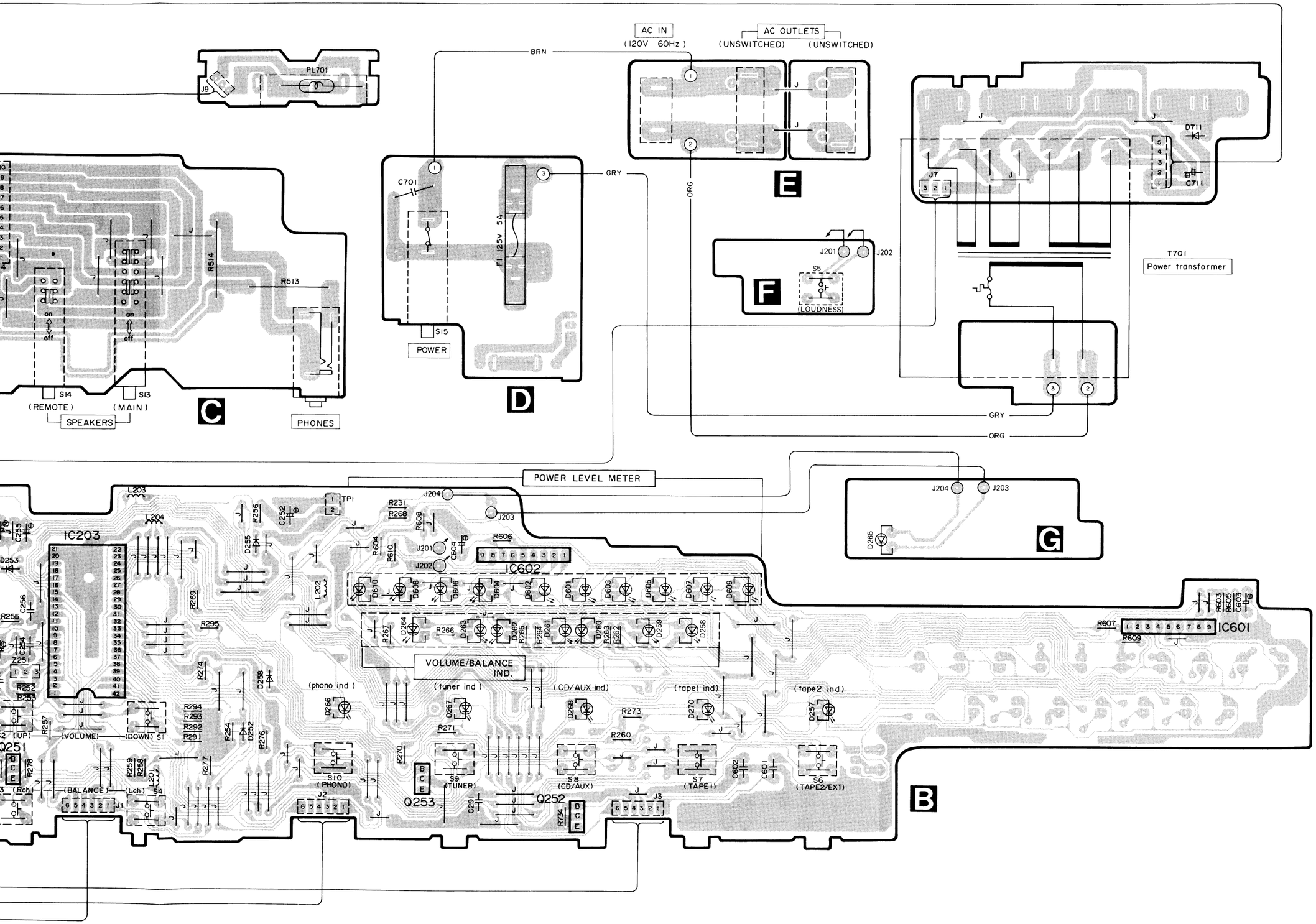
IC 201 INPUT SELECTOR

( ) indicates pin NO. of right channel.

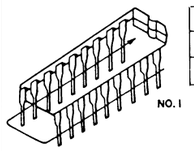
D

■ CIRCUIT BOARDS AND WIRING CONNECTION DIAGRAM



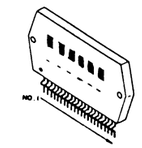


• Terminal guide of transistors, diodes and IC's

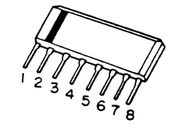


M50720407SP	42Pin
TC9163N	28Pin
TC9177P	20Pin

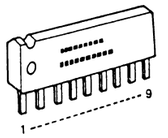
SVI3105B 18Pin



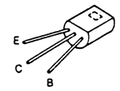
M5218L
M5238L



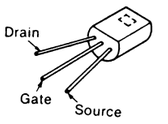
SVIBA6144



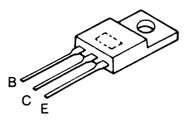
2SA992E



2SK301



2SD1265–0



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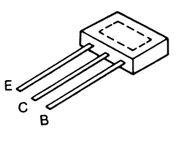
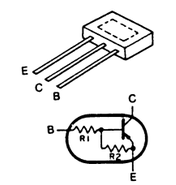
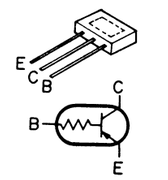


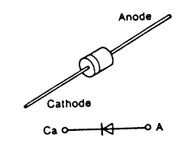
UN4111



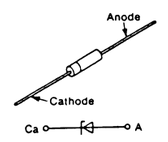
UN4115



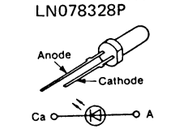
SVD1SR35200A
MA165
SVDS3V20



MA4062M
MA4130M



LN108399P
LN018397PH
LN054398PH1
LN078328P



■ SCHEMATIC DIAGRAM

A

EQUALIZER CIRCUIT

IC101 M5218L EQ. AMP

IC202 TC9177P VOLUME CONTROL

IC301 M5238L TONE AMP

VOLUME CONTROL CIRCUIT

TONE CONTROLS CIRCUIT

PRE OUT MAIN L ch R ch L ch

Q255 UN4111 MUTING CONTROL

GND

PHONO L ch R ch

TUNER L ch R ch

CD/AUX L ch R ch

TAPE1 REC OUT L ch R ch

TAPE1 PLAYBACK L ch R ch

Tape1 recording signal

Tape 2 recording signal

TAPE 2/EXT REC OUT L ch R ch

TAPE 2/EXT PLAY BACK L ch R ch

C560 6V47

IC201 TC9163N INPUT SELECTOR

IC201	PHONO	TUNER	CD/AUX	TAPE1	TAPE2
X1	on	—	—	—	—
X2	—	on	—	—	—
X3	—	—	on	—	—
X4	on	on	on	on	—
X5	—	—	—	—	on
X6	on	on	on	—	on
X7	—	—	—	on	—

INPUT SELECTOR CIRCUIT

J1 J2 J5 PLAY REC

TO TAPE TO TUNER TO CD

(LOUDNESS) S5

(VOL. DOWN) S1 (VOL. UP) S2 (BAL. Rch) S3 (BAL. Lch) S4

(tape2) S6 (tape1) S7

(CD/AUX) S8 (tuner) S9 (phone) S10

Q253 2SA1309 SWITCHING

IC203 M50720-408SP MICRO COMPUTER

Q251 Q252 2SA1309 SWITCHING

IC602 BA6144 LED DRIVE

IC601 BA6144 LED DRIVE

D602,604,606,608,610 LN108399P x5

D601,603,605,607,609 LN108399P x5

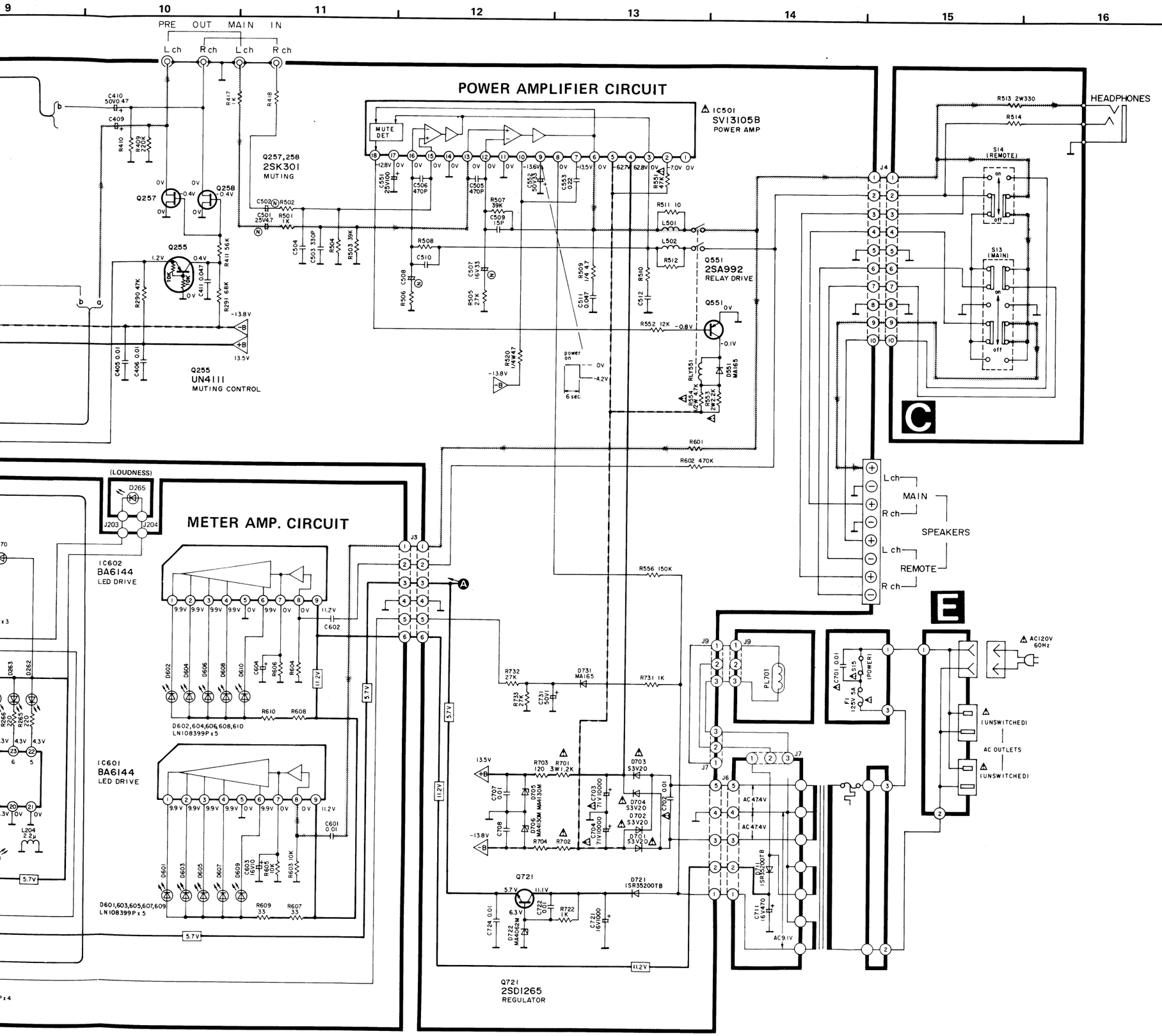
D265 LN018397PH D262~264 LN078328P x3

D266~268,270 LN054398PH x4

D257 LN054398PH D258~261 LN078328P x4

B

MICRO COMPUTER CIRCUIT



Notes:

1. S1 : Volume, "Down" switch.
2. S2 : Volume, "Up" switch.
3. S3 : Balance, "Right" switch.
4. S4 : Balance, Left" switch.
5. S5 : Loudeness switch.
6. S6 : Input selector, "Tape2/ext" switch.
7. S7 : Input selector, "Tape 1" switch.
8. S8 : Input selector, "CD/aux" switch.
9. S9 : Input selector, "Tuner" switch.
10. S10 : Input selector, "Phono" switch.
11. S13 : Main speakers switch in "on" position.
12. S14 : Remote speakers switch in "off" position.
13. S15 : Power switch in "on" position.
14. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
    Measurement condition:
    Input selector – phono (no signal)
    Volume – Minimum
    Loudness – off
15. Positive (+B) voltage lines
16. Negative (–B) voltage lines
17. Signal lines (L channel)
18. Impedance safety notice:
    Components identified by ⚠ mark have special, characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

*** Coution!**

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during repair.

* Cover the parts boxes made of plastics with aluminum foil.
* Ground the soldering iron.
* Put a conductive mat on the work table.
* Do not touch the legs of IC or LSI with the fingers directly.

Cautions:

- The IC203 microcomputer is to be modified halfway under production.

Ref. No.	Old	New
IC203	M50720–407SP	M50720–408SP

- The new-type microcomputer is interchangeable with the old one. So the new ones are shipped as replacement part for the products already supplied, too.
- In the circuit diagram and replacement parts list is described the new-type microcomputer.

■ REPLACEMENT PARTS LIST

Notes: * Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
* Bracketed indications in Ref. No. columns specify the area.
Parts without these indications can be used for all areas.

Numbering System of Resistor

Example

ERD	25	F	J	102
Type	Wattage	Shape	Tolerance	Value

ERX	2	AN	J	471
Type	Wattage	Shape	Tolerance	Value 47x10¹ (ohm)

Numbering System of Capacitor

Example

ECKD	1H	102	Z	F
Type	Voltage	Value	Tolerance	Peculiarity

ECEA	50	M	330
Type	Voltage	Peculiarity	Value (33x10⁰ microfarad)

Resistor Type	Wattage	Tolerance
ERD : Carbon ERG : Metal Oxide ERX : Metal Film ERQ : Fuse Type Metal ERD□ L : Carbon (chip) ERQ□ K : Metal Film (chip) ERC : Solid	10 : 1/8W 12 : 1/2W 25 : 1/4W 1A : 1W 18 : 1/8W S2 : 1/4W S1 : 1/2W 2F : 1/4W 50 : 1/2W 2A : 2W	J : ±5% F : ±1% G : ±2% K : ±10%

Capacitor Type	Voltage	Tolerance
ECE : Electrolytic ECCD : Ceramic ECKD : Ceramic ECQM : Polyester ECQP : Polyproylene ECG : Ceramic ECEA□□□□N: Non Polar Electrolytic QCU□ : Ceramic (Chip Type) ECUX : Ceramic (Chip Type) ECF : Semiconductor EECW : Liquid electrolyte double layer capcitor	0J : 6.3V 1A : 10V 1C : 16V 1E : 25V 1H : 50V 1V : 35V 50 : 50V 05 : 50V 2H : 500V 2A : 100V 1 : 100V KC : 400V AC KC : 125VAC (UL) 1J : 63V	C : ±0.25pF J : ±5% K : ±10% Z : +80% −20% P : +100% −0% M : ±20% D : ±0.5pF G : ±2%

Ref. No.	Part No.	Part Code
RESISTORS		
R101, R102	ERDS2TJ391	001 152 2360 6
R103, R104	ERDS2TJ473	001 152 2363 3
R105, R106	ERDS2TJ271	001 152 2435 4
R107, R108	ERDS2TJ123	001 152 2424 7
R109, R110	ERDS2TJ184	001 152 2588 8
R111, R112	ERDS2TJ184	001 152 2588 8
R113, R114	ERDS2TJ391	001 152 2360 6
R203, R204	ERDS2TJ563	001 152 2446 1
R205	ERDS2TJ563	001 152 2446 1
R206	ERDS2TJ474	001 152 2443 4
R207, R208	ERDS2TJ103	001 152 2347 3
R221	ERDS2TJ184	001 152 2588 8
R223, R224	ERDS2TJ333	001 152 2358 0
R225, R226	ERDS2TJ103	001 152 2347 3
R227	ERDS2TJ103	001 152 2347 3
R230	ERDS2TJ124	001 152 2425 6
R231	ERDS2TJ472	001 152 2362 4
R251	ERDS2TJ103	001 152 2347 3
R252	ERDS2TJ105	001 152 2422 9
R253, R254	ERDS2TJ103	001 152 2347 3
R255	ERDS2TJ104	001 152 2348 2
R257, R258	ERDS2TJ682	001 152 2365 1
R259	ERDS2TJ682	001 152 2365 1
R260	ERDS2TJ151	001 152 2426 5
R261, R262	ERDS2TJ221	001 152 2431 8
R263, R264	ERDS2TJ221	001 152 2431 8
R265, R266	ERDS2TJ221	001 152 2431 8
R267, R268	ERDS2TJ221	001 152 2431 8
R269, R270	ERDS2TJ151	001 152 2426 5
R271	ERDS2TJ151	001 152 2426 5
R273	ERDS2TJ121	001 152 2349 1
R274, R276	ERDS2TJ103	001 152 2347 3
R277, R278	ERDS2TJ103	001 152 2347 3
R279, R289	ERDS2TJ103	001 152 2347 3
R290	ERDS2TJ473	001 152 2363 3
R291	ERDS2TJ103	001 152 2347 3
R291	ERDS2TJ683	001 152 2450 5
R292, R293	ERDS2TJ103	001 152 2347 3
R293	ERDS2TJ472	001 152 2362 4
R294, R295	ERDS2TJ103	001 152 2347 3
R301, R302	ERDS2TJ474	001 152 2443 4
R303, R304	ERDS2TJ474	001 152 2443 4
R305, R306	ERDS2TJ392	001 152 2439 0
R307, R308	ERDS2TJ392	001 152 2439 0
R309, R310	ERDS2TJ183	001 152 2429 2
R311, R312	ERDS2TJ332	001 152 2357 1
R313, R314	ERDS2TJ122	001 152 2423 8
R315, R316	ERDS2TJ821	001 152 2454 1
R317, R318	ERDS2TJ223	001 152 2432 7
R321, R322	ERDS2TJ222	001 152 2353 5
R409, R410	ERDS2TJ224	001 152 2433 6
R411	ERDS2TJ563	001 152 2446 1
R417, R418	ERDS2TJ102	001 152 2346 4
R453	ERDS2TJ563	001 152 2446 1
R501, R502	ERDS2TJ102	001 152 2346 4
R503, R504	ERDS2TJ393	001 152 2440 7
R505, R506	ERDS2TJ272	001 152 2354 4
R507, R508	ERDS2TJ393	001 152 2440 7
R509, R510	ERD25FJ4R7	001 152 0303 3
R511, R512	ERDS2TJ100	001 152 2420 1
R513, R514	ERG2ANJ331	001 151 0154 3
R520	ERD25FJ470	001 152 0309 7
R551	ERDS2TJ473	001 152 2363 3
R552	ERDS2TJ123	001 152 2424 7
R553	ERG2ANJ222	001 151 0142 7
R554	ERDS1FJ472	001 152 2634 9
R556	ERDS2TJ154	001 152 2427 4
R601, R602	ERDS2TJ474	001 152 2443 4
R603, R604	ERDS2TJ103	001 152 2347 3
R605, R606	ERDS2TJ103	001 152 2347 3
R607, R608	ERDS2TJ330	001 152 2355 3
R609, R610	ERDS2TJ330	001 152 2355 3
R701, R702	ERG2ANJ222	001 151 0142 7
R703, R704	ERDS2TJ121	001 152 2349 1
R722, R731	ERDS2TJ102	001 152 2346 4
R732, R733	ERDS2TJ273	001 152 2436 3
R734	ERDS2TJ124	001 152 2425 6
CAPACITORS		
C101, C102	ECCD1H101K	001 103 0341 2
C103, C104	ECKD1H102PF	001 103 1435 3
C105, C106	ECEA0JK330	001 120 0141 1
C107, C108	ECFTD682KXL	001 108 0363 1
C109, C110	ECFTD223KXL	001 108 0342 6
C111, C112	ECEA1HK010	001 120 0341 5
C113, C114	ECEA1CKS100	001 120 2600 7
C115, C201	ECKD1H103PF	001 103 1449 7
C221, C222	ECFTD333KXL	001 108 0360 4
C225 ⚠	ECKD1H223PF	001 103 1510 9
C226	ECKD1H473ZF	001 103 5404 4
C231	ECKD1H103PF	001 103 1449 7
C251	ECEA1HN2R2S	001 120 0356 8
C252	EECF5R5U473	001 120 3738 6
C253	ECEA0JU101	001 120 2629 8
C254 ⚠	ECKD1H223PF	001 103 1510 9
C255	ECEA1HK010	001 120 0341 5
C256, C257	ECBT1H102KB5	001 103 8123 8
C287, C288	ECBT1H102KB5	001 103 8123 8
C289	ECBT1H102KB5	001 103 8123 8
C291	ECKD1H102PF	001 103 1435 3
C301, C302	ECCD1H150KC	001 103 0410 6
C303, C304	ECKD1H221KB	001 103 1487 1
C305, C306	ECCD1H100KC	001 103 0321 6
C307, C308	ECEA1CKS100	001 120 2600 7
C309, C310	ECFTD123KXL	001 108 0745 1
C311, C312	ECFTD683KXL	001 108 0346 2
C313, C314	ECFTD562KXL	001 108 0904 4
C315, C316	ECFTD273KXL	001 108 0343 5
C317	ECKD1H103PF	001 103 1449 7
C409, C410	ECEA1HKR47	001 120 0338 0
C411	ECKD1H473ZF	001 103 5404 4
C413, C414	ECEA1HK010	001 120 0341 5
C501, C502	ECEA1EN4R7S	001 120 0299 0
C503, C504	ECKD1H331KB	001 103 1523 4
C505, C506	ECKD1H471KB	001 103 1551 0
C507, C508	ECEA1CN330S	001 120 0240 9
C509, C510	ECCD1H150KC	001 103 0410 6
C511, C512	ECQM1H473JZ	001 106 0810 9
C551	ECEA0JU101	001 120 2629 8
C552	ECEA1HS330	001 120 0383 5
C553	ECQM1H224JZ	001 106 0746 0
C560	ECEA0JK470	001 120 0143 9
C601, C602	ECKD1H103PF	001 103 1449 7
C603, C604	ECEA1CKS100	001 120 2600 7
C701	ECKWNS103ZV	001 103 8209 3
C702	ECKDZH103PE	001 103 1626 8
C703, C704 ⚠	ECES71V103VN	001 120 5525 9
C707, C708	ECKD1H103PF	001 103 1449 7
C711	ECEA1CU471	001 120 3202 3
C721	ECEA16V1000	001 120 2545 7
C722, C724	ECKD1H103PF	001 103 1449 7
C731	ECEA1HK010	001 120 0341 5

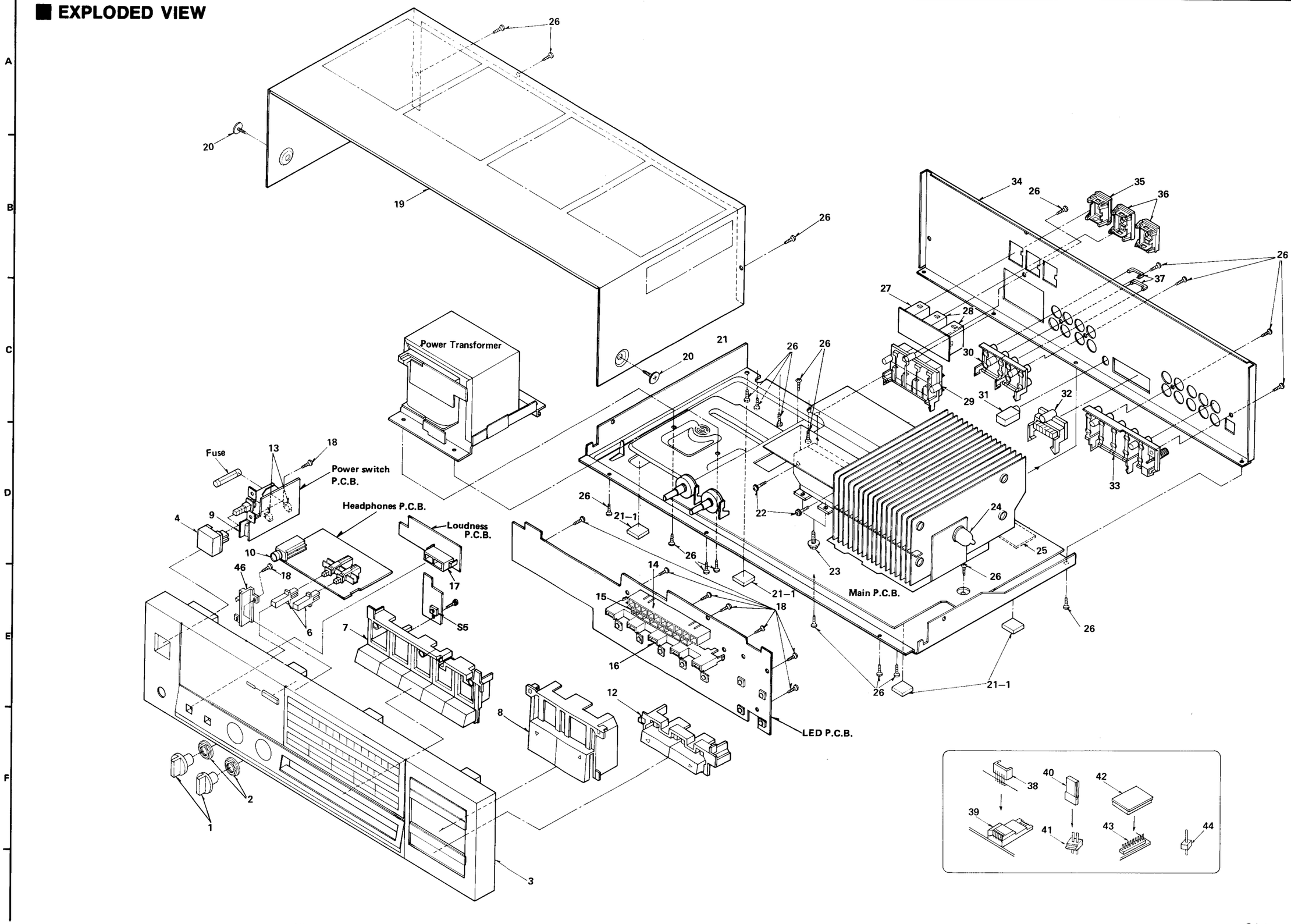
Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
4. The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Part Code	Description
INTEGRATED CIRCUITS (ALL ESD)			
IC101	M5218L	001 060 3798 7	I.C., OPERATION AMP.
IC201	TC9163N	001 061 0203 2	I.C., INPUT SELECTOR
IC202	TC9177P	001 061 0839 2	I.C., VOLUME CONTROL
IC203	M50720408SP	001 061 5096 7	I.C., MICROCOMPUTER
IC301	M5238L	001 061 3522 8	I.C., TONE AMP
IC501 ⚠	SVI3105B	001 061 4021 0	I.C., POWER AMP.
IC601, IC602	SVIBA6144	001 060 8320 1	I.C., POWER LEVEL METER
TRANSISTORS			
Q207, Q208	2SK301	001 030 2428 2	TRANSISTOR
Q251, Q252	2SA1309Q	001 030 4058 0	TRANSISTOR
Q253	2SA1309Q	001 030 4058 0	TRANSISTOR
Q255	UN4111	001 030 2899 5	TRANSISTOR
Q256	UN4115	001 030 4833 5	TRANSISTOR
Q257, Q258	2SK301	001 030 2428 2	TRANSISTOR
Q551	2SA992E	001 030 0513 4	TRANSISTOR
Q721	2SD1265-0	001 030 2652 6	TRANSISTOR
DIODES			
D201, D202	MA165	001 032 0494 0	DIODE
D203, D251	MA165	001 032 0494 0	DIODE
D252, D253	MA165	001 032 0494 0	DIODE
D255	MA165	001 032 0494 0	DIODE
D257	LN054398PH1	001 033 0136 4	DIODE ASS'Y
D258	MA165	001 032 0494 0	DIODE
D258-, D264	LN078328P	001 032 8674 6	DIODE ASS'Y
D265	LN018315P	001 032 9292 2	LED
D266, D268	LN054398PH1	001 033 0136 4	DIODE ASS'Y
D270	LN054398PH1	001 033 0136 4	DIODE ASS'Y
D282, D551	MA165	001 032 0494 0	DIODE
D601-, D610	LN108399P	001 033 0139 1	DIODE ASS'Y
D701, D702 ⚠	SVDS3V40	001 032 1347 6	RECTIFIER
D703, D704 ⚠	SVDS3V40	001 032 1347 6	RECTIFIER
D705, D706	MA4130M	001 032 4960 9	DIODE
D711, D721 ⚠	SVD1SR35200A	001 032 3951 4	RECTIFIER
D722	MA4062-M	001 032 7211 7	DIODE
D731	MA165	001 032 0494 0	DIODE
VARIABLE RESISTORS			
VR301, VR302	EWCSSAF20C15	001 174 8941 5	V.R., BASS.TREB
THERMISTORS AND VARISTORS			
TH201, TH202	RRT104	001 191 0297 5	THERMISTOR
COILS AND TRANSFORMERS			
L201, L202	ELEXT1R0MA	001 211 4079 8	COIL
L203, L204	ELEXT2R2MA	001 211 4080 5	COIL
L501, L502	SLQY07G-40	001 211 2149 9	CHOKE COIL
T1 ⚠	SLT5P269	001 202 8993 8	POWER TRANSFORMER
COMPONENT COMBINATIONS			
Z251	EF0FC2004A4	001 242 0168 1	OSCILLATOR
LAMPS			
PL701	XAMS6Q17C	002 351 1074 6	PILOT LAMP
FUSES			
F1 ⚠	XBA1F50NU14	002 380 0324 8	FUSE 5A, 125V, 5A 125V
SWITCHES			
S1, S2	EVQQAC05G	003 439 2072 1	SW, VOLUMER
S3, S4	EVQQAC05G	003 439 2072 1	SW
S5, S6	EVQQAC05G	003 439 2072 1	SW
S7, S8	EVQQAC05G	003 439 2072 1	SW, INPUT
S9, S10	EVQQAC05G	003 439 2072 1	SW, INPUT
S13, S14	SSH2127	003 435 6328 0	SW, SPEAKER
S15 ⚠	ESB8249V	003 435 5877 0	POWER SWITCH
RELAYS			
RY551	SSY126	003 450 2686 0	RELAY

Ref. No.	Part No.	Part Code	Description
CABINET AND CHASSIS			
1	SBN1089-1	016 700 1857 9	KNOB, BASS.TREB
2	SNE4021	005 507 0372 5	NUT
3	SGYU373-KM		FRONT PANEL
3-1	SGK2123A		FILTER
3-3	SGU566A		FILTER
4	SBC666	016 702 5545 6	BUTTON, POWER
6	SBC719	016 702 6143 6	BUTTON
7	SBC940-2	016 702 7040 8	BUTTON
8	SBC945-2A		BUTTON
9	SMZ320	016 610 0032 7	OPTICAL SHIELD
10	SJJ134B	003 400 7050 0	JACK, HEADPHONES
12	SBC946-2A		BUTTON
13	SJT391	003 410 7242 8	LUG TERMINAL
14	LN108399P	001 033 0139 1	DIODE ASS'Y
15	LN078328P	001 032 8674 6	DIODE ASS'Y
16	LN054398PH1	001 033 0136 4	DIODE ASS'Y
17	LN018315P	001 032 9292 2	LED
18	XTB3+6G	005 501 2607 7	SCREW
19	SKC1950K961	016 800 2793 7	CABINET
20	SNE2129-1	005 500 7938 6	SCREW
21	SKUUV76-KM		BOTTON BOARD
21-1	SKL293	016 828 0269 8	RUBBER
22	SNE2118	005 500 5011 2	SCREW
23	XTW3+8T	005 501 1358 9	SCREW
24	SXE1156	016 630 1846 1	HEAT SINK
25	SMC6379	016 601 0538 7	SHIELD COVER
26	XTBS3+8JFZ1	005 501 2523 0	SCREW
27 ⚠	SJS9234B	003 400 5922 5	AC INLET
28 ⚠	SJS9233B	003 402 1993 6	AC OUTLET
29	SJF5812	003 410 8155 2	TERMINAL BOARD
30	SJF3066N	003 410 8130 1	TERMINAL BOARD
31	SJJ141-1	003 440 7804 8	JACK,SOCKET
32	SJS604	003 403 4237 8	CONNECTOR
33	SJF3062-1NK	003 410 8154 3	TERMINAL BOARD
34	SGPU373-KM		REAR PANEL
35	SJS9234A	003 400 5921 6	AC INLET COVER
36	SJS9233A	003 410 6004 4	AC OUTLET COVER
37	SJP9205-2Y	003 492 6791 0	SHORTING PIN
38	SJT30647WL	003 410 8132 9	CONNECTOR
39	SJS5068WL	003 403 7235 8	CONNECTOR
39	SNE2129-1	005 500 7938 6	SCREW
40	SJT3215	003 410 6113 0	TERMINAL PLATE
41	SJT3209	003 410 1812 0	TERMINAL
42	SJS54	003 400 7801 5	SOCKET, (10P)
43	SJT3041	003 410 8161 4	TERMINAL BOARD
44	SJT3101	003 410 3704 5	CONNECTOR
46	SMP421	016 632 1945 9	ANGLE

Ref. No.	Part No.	Part Code	Description
PACKINGS			
P1	SPG5965		PACKING CASE
P2	SPS4714-1	016 977 3297 0	PAD
P3	SPS4715-1	016 977 3296 1	PAD
P4	SPS4716		PAD
P5	SPP723	016 978 0207 5	PROTECTION COVER
ACCESSORIES			
A1 ⚠	SJA172-1	003 490 4930 5	POWER CORD
A4	UM-3NEP-2P	016 955 0018 5	BATTENY
A5	SQF12949		INSTRUCTION BOOK
A7	SWKUV96KM	016 934 0170 5	WIRING MATERIAL

■ EXPLODED VIEW



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